PTO/SB/08A (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/033,051	RECEIVED
Filing Date	October 25, 2001	Figure 1
First Named Inventor	Mehrotra et al.	
Art Unit	1731	TO
Examiner Name	Fiorilla, C.A.	700
Attorney Docket Number	K-1436PD	

			U. S. PATENT	DOCUMENTS			
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Docume	"CiAS	Releva	Columns, Lines, Where it Passages or Relevant Figures Appear
QF		US- 4,011,108	03/1977	Hellman et al.	X	X	
CE		^{US-} 4,038,092	07/1977	Baumgartner et al.	×	X	
CE		^{US-} 4,127,416	11/1978	Lumby et al.	X	X	
CF		^{US-} 4,227,842	10/1980	Samanta et al.	χ	Χ	
CF		^{US-} 4,264,548	04/1981	Ezis	_X	X	
Œ		^{US-} 4,264,550	04/1981	Ezis	χ	X	
Œ		^{US-} 4,286,905	09/1981	Samanta	X_	X	
Œ		^{US-} 4,296,065	10/1981	Ishii et al.	X	X	
ČE		^{US-} 4,388,085	06/1983	Sarin et al.	X	X	
CF		^{US-} 4,401,617	08/1983	Ezis et al.	Χ	X	
ĊĖ		^{US-} 4,406,667	09/1983	Sarin et al.	x	X	
CF		^{US-} 4,406,668	09/1983	Sarin et al.	X	X	
ČE		^{US-} 4,409,003	10/1983	Sarin et al.	X	×	
7F		US- 4,409,004	10/1983	Sarin et al.	X	Х	
Œ		US- 4,416,670	11/1983	Sarin et al.	X	K	
ČE		^{US-} 4,421,525	12/1983	Sarin et al.	X	X	
ζF		^{US-} 4,431,431	02/1984	Sarin et al.	X	X	
7		^{US-} 4,433,979	02/1984	Sarin et al.	χ	X	
7		^{US-} 4,434,238	02/1984	Ezis et al.	×	X	

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Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relovant Passages		
		Country Code ^{3 Number ⁴ 'Kind Code⁶ (# known)}	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶	
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Signature	1 771	Considered	1 12121 1	03
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Translation is attached.

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Sheet 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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001	inplete il Kilowiii
Application Number	10/033,051
Filing Date	October 25, 2001
First Named Inventor	Mehrotra et al. UCT 1 6 2003
Art Unit	1731
Examiner Name	Fiorilla, C.A.
Attorney Docket Number	K-1436PD

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Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Docum	ent		s, Columns, Lines, Where ant Pessages or Relevent
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Œ		^{US-} 4,440,547	04/1984	Sarin et al.	Х	X	
CF		^{US-} 4,440,707	04/1984	Shimamori et al.	Χ	X	
(F		US- 4,441,894	04/1984	Sarin et al.	X	X	
CC		^{US-} 4,449,989	05/1984	Sarin et al.	X	X	
Œ		^{US-} 4,497,228	02/1985	Sarin et al.	Х	Х	
Œ		^{US-} 4,563,433	01/1996	Yeckley et al.	X	X	
CF		^{U\$-} 4,575,449	03/1986	Lueth	X	X	
CF		US- 4,607,017	08/1986	Wolfe et al.	X	X	
Œ		US-4,609,633	09/1986	Fukuhara et al.	L X	X	
CF		^{US-} 4,632,910	12/1986	Lee et al.	X	X	
CE		US- 4,640,693	02/1987	Bhat et al.	X	X	
CF		^{US-} 4,650,498	03/1987	Buljan	X	X	
Œ		^{US-} 4,652,276	03/1987	Burden	X	X	
CF_		us- 4,670,024	06/1987	Bhat et al.	X	X	
CF		US- 4,711,644	12/1987	Yeckley et al.	X	X	
CF		^{US-} 4,743,571	05/1988	Steinmann et al.	Х	X_	
CF		^{US-} 4,745,022	05/1988	Miyake et al.	X	X	
Œ		^{US-} 4,769,350	09/1988	Nishioka et al.	Х	X	
Œ		US- 4,789,277	12/1988	Rhodes et al.	X	Y	

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Examiner Cite No.1		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	l
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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n Act of 1995, no persons are required to	U.S. Patent and Trader	oved for use through 07/31/ nark Office; U.S. DEPARTM tion unless it contains a valic	ENT OF COMMERCE
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	Application Number	10/033,051	BECEUVEN
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	First Named Inventor	Mehrotra et al.	DCT 1 C man
BY APPLICANT	Art Unit	1731	OCT 19 SANT
heets as necessary)	Examiner Name	Fiorilla, C.A.	TO
of 7	Attorney Docket Number	K-1436PD	

			U. S. PATENT	DOCUMENTS			
Examiner Cite Document Number		Publication Date MM-DD-YYYY	Name of Patentee Applicant of Cited Doo			s, Columns, Lines, Where ant Passages or Relevant	
Initials*	No.1	Number-Kind Code ^{2 (# known)}	MIM-UU-TTTT	Applicant of Cited Doc	CLASS	SUB	Figures Appear
CF		^{US-} 4,843,039	06/1989	Akesson et al.	X	X	*
CF		^{US-} 4,848,984	07/1989	Ezis et al.	K	Ä	4
CF		^{US-} 4,880,755	11/1989	Mehrotra	χ	X	*
CE		^{US-} 4,881,950	11/1989	Bhat et al.	X	X	*
CF		^{US-} 4,892,792	01/1990	Sarin et al.	Х	X	Х
CF		^{US-} 4,913,936	04/1990	Mehrotra et al.	X	X	Х
CF	_	^{US-} 4,946,630	08/1990	Ezis	X	X	×
CF		^{US-} 4,959,331	09/1990	Mehrotra et al.	X	X	Х
CF		US- 4,959,332	09/1990	Mehrotra et al.	χ	_X_	х
CF		^{US-} 4,960,735	10/1990	Mehrotra et al.	Х	X	X
CE		^{US-} 4,961,757	10/1990	Rhodes et al.	X	Х	Х
CF		^{US-} 4,965,231	10/1990	Mehrotra et al.	K	X	Y
CF		^{US-} 5,024,976	06/1991	Mehrotra et al.	X	X	Х
ČE		^{US-} 5,049,531	09/1991	Nakanishi et al.	X	K	ж
Œ		us- 5,079,198	01/1992	Edler et al.	X	X	ች
CF		^{US-} 5,110,770	05/1992	Brandt et al.	X	X	Υ
Œ		^{US-} 5,122,485	06/1992	Akimune	Х	X	Χ
CF		^{US-} 5,171,723	12/1992	Moriguchi et al.	X	λ	Х
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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	-6
''		Country Code ³ "Number ⁴ "Kind Code ⁶ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	
CF		DE 3938644	05/1990	NGK Spark Plug	X	
CE		DE 3939989	07/1990	NGK Spark Plug	γ	
CE_		DE 4000777	08/1990	NGK Spark Plug	Ý.	<u> </u>
Œ		EP 0107919	05/1984	British Cer. Re	X	
CF		EP 0298936	01/1989	Sandvik AB	X	
CF		EP 0497355	08/1992	NGK Spark Plug	Х	

12/21 07 Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Col	Complete it Known					
Application Number	10/033,051 NECEVE					
Filing Date October 25, 2001						
First Named Inventor	Mehrotra et al. 007 6 2003					
Art Unit	1731					
Examiner Name	Fiorilla, C.A. TC 1700					
Attorney Docket Number	K-1436PD					

				DOCUMENTS				
Exeminer Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages Columns, Lines, Where Relevant Passages or Relevant		
	'	Number-Kind Code ^{2 (# known)}		1	CLASS	Sos Figures Appear		
CE		^{US-} 5,234,643	08/1993	Matsumoto	X	λ	X	
CE		^{US-} 5,250,477	10/1993	Baldoni, II et al.	χ	X	X	
ÖF	T	US- 5,294,575	03/1994	Matsumoto	X	X	X	
Œ		^{US-} 5,296,008	03/1994	Moriguchi et al.	X	X	X	
CF		^{US-} 5,308,561	05/1994	Leimer et al.	X _	X	X	
CF		^{US-} 5,316,856	05/1994	Suzuki et al.	<u> </u>	X	χ	
CE		US- 5,326,733	07/1994	Mizuno et al.	×	X	X	
CF.		^{US-} 5,352,641	10/1994	Matsui et al.	X	x	X	
CE		^{US-} 5,370,716	12/1994	Mehrotra et al.	X	X	X	
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CF		^{US-} 5,405,592	04/1995	Edler et al.	1 x	X	X	
CI		US- 5,411,923	05/1995	Suzuki et al.	X _	X	X	
CF		US- 5,424,256	06/1995	Yoshimura et al.	X	Х	Χ	
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Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	-6	C/a	139
	Ì	Country Codo ^{3 *} Number ⁴ *Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appcar		195	1
CF		EP 0499861	08/1992	Sumitomo El. In	X		_	上
CF		EP 0589997	04/1994	AlliedSignal In	λ		_	匚
CF	T	EP 0615963	09/1994	Sumitomo el. In	X		_	Ľ
CF		EP 0472256	08/1995	Dow Chemical Co	X		1	
CF		JP 0354143	03/1991	Honda Engineer	x		1	二
CR		JP 3193666	08/1991	INAX, Inc.	Х		=	上

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Col	mpiete if Known	MECED.
Application Number	10/033,051	TECE! VED
Filing Date	October 25, 2003	DOT 1
First Named Inventor	Mehrotra et al.	2003
Art Unit	1731	TO
Examiner Name	Fiorilla, C.A.	7700
Attorney Docket Number	K-1436PD	90

Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee Applicant of Cited Do			s, Columns, Lines, Where ant Passages or Relevent Figures Appear
7F		^{US-} 5,454,232	09/1995	Hida et al.	X	X	X
CF		^{US-} 5,455,000	10/1995	Seyferth et al.	X	Ж	X
ĈE		^{US-} 5,472,919	12/1995	Mitomo et al.	X	Ä	λ
Œ		^{US-} 5,502,011	03/1996	Yamamoto et al.	X	A	X
Œ		^{US-} 5,525,134	06/1996	Mehrotra et al.	K.	Ж	X
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Œ		^{US-} 5,545,362	08/1996	Hirosaki et al.	X	X	X
CF		US- 5,545,597	08/1996	Yeckley	X	X	入
CF		^{US-} 5,571,760	11/1996	Pujari et al.	X	X	X
Œ		^{US-} 5,628,590	05/1997	Beeghly et al.	X	X	À
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CF		^{US-} 5,668,069	09/1997	Sato et al.	, jt	X	X
CF		^{US-} 5,691,261	11/1997	Takahashi et al.	X	X	X
ΛF.		^{US-} 5,705,449	01/1998	Hirao et al.	T	太	አ
CF.		US- 5,720,917	02/1998	Matsuura et al.	X	X	X
TE		^{US-} 5,759,481	06/1998	Pujari et al.	X	X	X
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Œ		WO 9735817	10/1997	Sandvik AB			=	\equiv
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Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complet If Known **Application Number** 10/033,051 Filing Date October 25, 2001 First Named Inventor Mehrotra et al. Art Unit 1731 Examiner Name Fiorilla, C.A. Altomey Docket Number K-1436PD

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CF	,,	SIVASANKARAN et al., "Wear of Ceramic Tools in MachiningCast Iron", pp. 293-301 (no date)	
Œ		BEEGHLY et al., "Application-Specialized Ceramics: A Silicon Nitride for Machining Gray Cast Iron", pp.91-99: ASM Confenrence: Tool Materials.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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CF.		KNUTSON-WEDEL, Si3N4 Ceramic Formed by HIP Using Additions of ZrO2", Ceramics Today-Tomorrow's Ceramics, Materials Science Monographs, 66B, Elsevie Science Publishers B.V. (1991 no month) pp.1347-1356	r
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